BRUHAT BANAGLORE MAHANAGARA PALIKE

Excecutive Engineer Dasarahalli Division

DETAILED ESTIMATE

me of Work:Desilting and resetting of drain and re Asphalting in ward no.15, Dasarahalli Sub Division

Code: 015-18-000009			**Estimate Amount :**			**49.96 Lakhs**		
Description of Item	**Unit / Rate**	**Nos**	**Dimensions**			**Quantity**	**Rate in Rs.**	**Total Amount in Rs**
			L in m	**B in m**	**D in m**			
Removing and refixing stone slabs of drains and pointing in CM (1:3)								
(Page No. 29, I.No. 5.33 of KPWD S.R 2018-19).).								
	sqm							
Rate Analysis								
Basic Rate in Rs			105.00					
Add 6% Area Weightage			6.30					
Total Rate in Rs.			**111.30**					
Ramachandra Hospital Road		2	259.00	0.90		466.20		
K K Road 1st Cross & 2nd Main		2	386.49	0.90		695.68		
K G Nagara 6th C & 6th B Cross		2	220.00	0.90		396.00		
						1557.88		
20% Damaged Slabs						311.58		
						3427.34	**111.30**	**381462.94**
2 KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
(Page No 143., I.No.19.1 of KPWD S.R 2018-19).								
	Cum							
Rate Analysis								
Basic Rate in Rs.			130.00					
Lead calculation for 13.3km ((2x1.28x13.3)+57= 91.048)			91.05					
Add 6% Area Weightage			7.80					
Total Rate in Rs.			**228.85**					
Desilting of Drain								
Ramachandra Hospital Road		1	259.00	0.45	0.40	46.62		
K K Road 1st Cross & 2nd Main		1	386.49	0.45	0.40	69.57		
K G Nagara 6th C & 6th B Cross		1	220.00	0.45	0.40	39.60		
						155.79	**228.85**	**35651.82**

	SRB 15.2.1 Providing flush pointing to stone slab pavements, with cement mortar 1:3, after raking joints, nicely lining, including cost of materials, labour, curing complete as per specifications.								
	Sqm								
	(Page No & I.No.15.70 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			44.00					
	Add 6% Area Weightage			2.64					
	Total Rate in Rs.			**46.64**					
	Ramachandra Hospital Road		2	259.00	0.90		466.20		
	K K Road 1st Cross & 2nd Main		2	386.00	0.90		694.80		
	K G Nagara 6th C & 6th B Cross		2	220.00	0.90		396.00		
							1557.00	**46.64**	**72618.48**
4	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge								
	Data Rate								
		sqm							
	Total Rate in Rs	*2337.00*							
		for damges							
	20% Damaged Slabs in Qty Item No.1						311.58		
							311.58	**2337.00**	**728154.05**
5	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3								
	Basic Rate	**39.00**							
	AW 6%	**2.34**							
	Total	**41.34**							
	Camber Correction of road								
	Ramachandra Hospital Road	1	259.00	0.90	0.20	46.62			
	K K Road 1st Cross & 2nd Main	1	386.00	0.90	0.20	69.48			
	K G Nagara 6th C & 6th B Cross	1	220.00	0.90	0.20	39.60			
						155.70	**41.34**	**Cum**	**6437**
6	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
	Basic Rate	6.00							
	AW@ 6%	0.36							
	Total	**6.36**							
	Camber Correction of road								
	Ramachandra Hospital Road	2	259.00	0.90		466.20			

K K Road 1st Cross & 2nd Main	2	386.00	0.90		694.80			
K G Nagara 6th C & 6th B Cross	2	220.00	0.90		396.00			
			Total		**1557.00**	**6.36**	**Sqm**	**9903**

KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18)

Basic Rate	**1888.00**							
AW 6%	**113.28**							
Total	**2001.28**							
Camber Correction of road								
Ramachandra Hospital Road	2	259.00	0.90	0.15	69.93			
K K Road 1st Cross & 2nd Main	2	386.00	0.90	0.15	104.22			
K G Nagara 6th C & 6th B Cross	2	220.00	0.90	0.15	59.40			
					233.55	**2001.28**	**Cum**	**467399**

8 KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No.158 I.No.21.6)**Issue Basic Rate Date;02.11.2021 to till now**

Basic Rate	**32.00**							
AW 6%	**1.92**							
Total	**33.92**							
Camber Correction of road								
Ramachandra Hospital Road	2	259.00	0.90		466.20			
K K Road 1st Cross & 2nd Main	2	386.00	0.90		694.80			
K G Nagara 6th C & 6th B Cross	2	220.00	0.90		396.00			
					1557.00	**33.92**	**Sqm**	**52813**

9 KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No.158 I.No.21.2)

Basic Rate	**6.00**							
AW 6%	**0.36**							
Total	**6.36**							
Camber Correction of road								
Ramachandra Hospital Road	1	259.00	5.00		1295.00			
K K Road 1st Cross & 2nd Main	1	386.00	5.00		1930.00			

K G Nagara 6th C & 6th B Cross	1	220.00	5.00		1100.00			
					4325.00	**6.36**	**Sqm**	**27507**

KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5

Issue Basic Rate Date;02.11.2021 to till now	**12.00**							
AW 6%	**0.72**							
Total	**12.72**							
Ramachandra Hospital Road	1	259.00	5.00		1295.00			
K K Road 1st Cross & 2nd Main	1	386.00	5.00		1930.00			
K G Nagara 6th C & 6th B Cross	1	220.00	5.00		1100.00			
					4325.00	**12.72**	**Sqm**	**55014**

11 KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.161 I.No.21.17.6) **Issue Basic Rate Date;02.11.2021 to till now**

Basic Rate	**8062.00**							
AW 6%	**483.72**							
Total	**8545.72**							
Camber Correction of road								
Ramachandra Hospital Road	2	259.00	0.90	0.05	23.31			
K K Road 1st Cross & 2nd Main	2	386.00	0.90	0.05	34.74			
K G Nagara 6th C & 6th B Cross	2	220.00	0.90	0.05	19.80			
					77.85	**8545.72**	**Cum**	**665284**

12 KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 (P.No.158 I.No.21.23.6) **Issue Basic Rate Date;02.11.2021 to till now**

Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
			L in m	B in m	D in m			
Basic Rate	**9617.00**							
AW 6%	**577.02**							
Total	**10194.02**							
Ramachandra Hospital Road	1	259.00	5.00	0.04	51.80			
~~Bhuvaneshwari nagara~~ 1st Main	1	386.00	5.00	0.04	77.20			
K G NAGARA GIS C G GIS B C ROLS	1	220.00	5.00	0.04	44.00			
					173.00	**10194.02**	**Cum**	**1763565**
KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No.185 I.No.24.15)								
Basic Rate	**429.00**							
AW 6%	**25.74**							
Total	**454.74**							
Ramachandra Hospital Road	2	259.00		0.10	51.80			
~~Bhuvaneshwari nagara~~ 1st Main	2	386.00		0.10	77.20			
K G NAGARA GIS C G GIS B C ROLS	2	220.00		0.10	44.00			
					173.00	**454.74**	**Sqm**	**78670**
							Sub Total	**4344479.66**
							Add 12% Towards GST Charges	**521337.56**
							Tender premium at 3%s	**130334.39**
							Miscellanious and rounding off	**3848.40**
								5000000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2018-19
4. That the provisions made in the estimate are necessary and quite essential.

Assistant Engineer
Ward No.15

Assistant ~~Executive~~ Engineer
Dasarahalli Sub-Division

Executive Engineer
Dasarahalli Division

ADMINISTRATIVELY SANCTIONED FOR
(Rupees fifty Lakhs only
Under the Head of Account P-0190
Mayor Room
Registered as no EE(D.D.)/AS/S1/21-22 subject to conditions contained in Enclosed Memo
No. EE/DD/AS/S1/21-22 Dt: 13/1/22
Exe. Eng
JE/AE. (DASARAHALLI) BBMP

Technically Sanctioned for Rs. 50.00 Lakh
Rs. In words Rupees fifty lakh only
Under P-0190
Job Code No. 015-18-000009
Registered as CE No. TS/79/14-01-2022 subject to conditions contained in Enclosed Memo
No. CE/D2/TS/79/2021-22 Dt: 14-01-2022
AE/JE. TA CE(D)